

CLAIMS

1. Multilayer structure based on polyamides and graft copolymers having polyamide blocks, comprising, in this order:
- 5 a) a first layer (1) formed from a polyamide (A) or else a polyamide (A)/polyolefin (B) blend having a polyamide matrix;
- b) optionally, a tie layer (2a);
- c) a layer (2) based on a graft copolymer having polyamide blocks, formed from a polyolefin backbone and from at least one polyamide graft in which:
- 10 ▪ the grafts are attached to the backbone by the residues of an unsaturated monomer (X) having a functional group capable of reacting with a polyamide having an amine end group;
- the residues of the unsaturated monomer (X) are attached to the backbone by grafting or copolymerization via its double bond;
- 15 the layers (1), (2a) and (2) being successive and adhering to one another in their respective contact region.
2. Structure according to Claim 1, comprising a polyamide or a polyolefin layer (3), this layer being placed beside the layer (2) and an optional tie layer (3a) being
- 20 placed between the layer (2) and the layer (3).
3. Structure according to either of the preceding claims, in which the flexible polyolefin is an ethylene/alkyl(meth)acrylate copolymer.
- 25 4. Structure according to any one of the preceding claims, in which X is an unsaturated carboxylic acid anhydride.
5. Structure according to any one of the preceding claims, in which the polyolefin backbone containing X is chosen from ethylene/maleic anhydride
- 30 copolymers and ethylene/alkyl(meth)acrylate/maleic anhydride copolymers.

6. Tanks, containers, bottles, multilayer films and tubes formed from the structure according to any one of the preceding claims.

5 7. Tanks, containers, bottles, multilayer films and tubes according to Claim 6 in which the layer (2) of graft copolymers having polyamide blocks or the layer (3) forms the inner layer in contact with the stored or transported fluid.

8. Tubes for cooling circuits of internal combustion engines, formed from the structure according to any one of Claims 1 to 5, in which the layer (2) of graft
10 copolymers having polyamide blocks or the layer (3) forms the inner layer in contact with the transported fluid.

9. Tanks, containers, bottles, films and tubes formed from the material based on a graft copolymer having polyamide blocks, consisting of a polyolefin
15 backbone and at least one polyamide graft in which:

- the grafts are attached to the backbone by the residues of an unsaturated monomer (X) having a functional group capable of reacting with a polyamide having an amine end group;
- the residues of the unsaturated monomer (X) are attached to the
20 backbone by grafting or copolymerization via its double bond.